SESSION C — Primary Particle Formation: Precipitation and Crystallisation

Crystallization and agglomeration kinetics during the batch drowning-out precipitation of potash alum with aqueous acetone 187
J. Mydlarz and A. G. Jones (London, U.K.)

Kinetic effects on particle morphology and size distribution during batch precipitation 195
T. A. Ring (Lausanne, Switzerland)

An aqueous precipitation–phase extraction route to hydrous zirconia particles. 207
A. W. L. Dudeney, M. Abdel-Ghani, G. H. Kelsall, A. J. Monhemius and L. Zhang (London, U.K.)

Understanding and controlling the crystal morphology of some ionic crystals. 219
P. Meenan, K. J. Roberts, J. N. Sherwood (Glasgow, U.K.) and K. R. Yuregir (Bebington, U.K.)

Formation of nylon 610 capsules by interfacial polymerisation in a high-voltage electric field. 227
L. R. Weatherley, B. Etuk and K. R. Murray (Edinburgh, U.K.)

The precipitation of solids in a liquid membrane emulsion: the control of particle size 235
M. Yang, G. A. Davies and J. Garside (Manchester, U.K.)

An instrument for the examination of nucleation from solution and its application to the study of precipitation from diesel fuels and solutions of *n*-alkanes. 243
A. R. Gerson, K. J. Roberts and J. N. Sherwood (Glasgow, U.K.)

The rapid aggregation of dilute suspesnions: An experimental investigation of Smoluchowski's theorem using photon correlation spectroscopy 251
T. M. Herrington and B. R. Midmore (Reading, U.K.)

SESSION D — Granulation and Attrition

A microlevel-based characterization of granulation phenomena 257
B. J. Ennis (Wilmington, DE, U.S.A.), G. Tardos and R. Pfeffer (New York, NY, U.S.A.)

Source variation in the wet massing (granulation) of some microcrystalline celluloses 273
M. D. Parker and R. C. Rowe (Macclesfield, U.K.)

Factors affecting the formation and properties of wet compacts 283
R. J. Wakeman, M. N. Sabri and E. S. Tarleton (Exeter, U.K.)

Tablet properties as a function of the properties of granules made in a fluidized bed process. 293
J. A. H. de Jong (Arnhem, The Netherlands)

An application of jet grinding to fluidised bed granulation. 305
A. W. Pacek and A. W. Nienow (Birmingham, U.K.)

Influence of processing conditions on attrition of NaCl crystals. 311
M. Ghadiri, K. R. Yuregir (Guildford, U.K.), H. M. Pollock, J. D. J. Ross (Lancaster, U.K.) and N. Rolfe (Winnington, U.K.)

The effect of agglomerate strength on attrition during processing 321
M. A. Müllier, J. P. K. Seville (Guildford, U.K.) and M. J. Adams (Bebington, U.K.)

Fragmentation and attrition of carbonaceous particles generated from the fluidized bed combustion of fuel–water slurries 335
M. Miccio and L. Massimilla (Naples, Italy)

SESSION E — Liquid–Particle Systems

1. Rheology

Recent developments in dense suspension rheology. 343
A. I. Jomha, A. Merrington and L. V. Woodcock (Bradford, U.K.), H. A. Barnes (Bebington, U.K.) and A. Lips (Sharnbrook, U.K.)

The relationship between interparticle forces and the bulk rheology of suspensions 371
P. F. Luckham, M. A. Ansarifar, B. A. de L. Costello (London, U.K.) and Th. F. Tadros (Bracknell, U.K.)

The effects of interface constraints on the deformation of pastes 381
M. J. Adams, S. K. Biswas, B. J. Briscoe and M. Kamyab (London, U.K.)

The flow of pastes through dies of complicated geometry 393
J. J. Benbow, S. H. Jazayeri and J. Bridgwater (Birmingham, U.K.)

SESSION E — Liquid–Particle Systems

2. Surface Effects and Tailored Particles

Influence of surfactants on the mechanical properties and comminution of wet-milled calcite 403
G. M. Carter, J. L. Henshall and R. J. Wakeman (Exeter, U.K.)

Sedimentation behaviour of complex polydisperse suspensions. 411
R. A. Williams, W. B. K. Amarasinghe, S. J. R. Simons and C. G. Xie (Manchester, U.K.)

Boric acid production by the calcination and leaching of powdered colemanite 433
T. W. Davies, S. Çolak and R. M. Hooper (Exeter, U.K.)

Effect of particle size and porosity on particle film coatings. 441
W. J. Iley (Bebington, U.K.)

SESSION F — Gas–Particle Systems

Thermophoretic and photophoretic motion of aerosols 447
I. Colbeck and E. J. Hardman (Colchester, U.K.)

Break-up of cylindrical clusters of solid particles under gravity flow in a two-dimensional column 453
A. Marzocchella, U. Arena, A. Cammarota and L. Massimilla (Naples, Italy)

Improvement of the fluidisability of Ni/SiO_2 acrogels by reducing interparticle forces 461
C. Lauga, J. Chaouki, D. Klavana and C. Chavarie (Montreal, Que., Canada)

Improvement of bulk flow properties of powders 469
G. Donsì and G. Ferrari (Baronissi, Italy)

Computational fluid dynamics modelling of vertical pneumatic conveying dryers. 477
I. C. Kemp, D. E. Oakley and R. E. Bahu (Harwell, U.K.)

Author Index 485

Subject Index 487